

10. (Amended) A method for inhibiting bone resorption associated with tumors of bone marrow, the method comprising administering to a mammal with said tumors an anti-alpha4 integrin antibody homolog or antigen binding fragment thereof, in an amount effective to provide inhibition of said bone resorption.

13. (Amended) The method of claim 10, wherein the alpha4 integrin antibody homolog is an anti-VLA4 antibody homolog or anti-alpha4beta 7 antibody homolog.

18. (Amended) The method of claim 10, wherein the is administered at a dosage so as to provide from about 0. 1 to about 20 mg/kg, based on the weight of the individual.

20. (Amended) A method of treating a subject having a disorder characterized by the presence of osteoclastogenesis, the method comprising administering to the subject an anti-alpha4 integrin antibody homolog or antigen binding fragment thereof, in an amount sufficient to suppress the osteoclastogenesis.

23. (Amended) The method of claim 20, wherein the anti-alpha4 integrin antibody homolog is an anti-VLA4 antibody homolog or an anti-alpha4 beta 7 antibody homolog.

28. (Amended) The method of claim 20, wherein the antibody homolog is administered at a dosage so as to provide from about 0. 1 to about 20 mg/kg body weight.